



JUL 27 1998

PTO/SB/17 (6-95)(modified)
Approved for use through 11/30/96, OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

0002570(modified)
FAX: 10/95U.S. Department of Commerce
Patent and Trademark Office**FEE TRANSMITTAL****TOTAL AMOUNT OF PAYMENT**Subtotal (1) + Subtotal (2) + Subtotal (3) = **(\$(0)****Complete if Known**

Application Number	09/083,769
Filing Date	May 22, 1998
First Named Inventor	Gerard McGoogan
Group Art Unit	2831
Examiner Name	Unknown

Attorney Docket Number 3454

METHOD OF PAYMENT**FEE CALCULATION (continued)****1. The Commissioner is hereby authorized to:**

- Charge the indicated fees to the below mentioned deposit account.
- Charge any additional fee required under 37 CFR 1.16 and 1.17 or credit any over payments to the below mentioned deposit account.[†]
- Charge the Issue Fee set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.311(b) to the below mentioned deposit account.

Deposit Account Number: 19-2555
Deposit Account Name: FENWICK & WEST LLP

A Duplicate Copy of this authorization is attached

2. Payment Enclosed:
[] Check [] Other

FEE CALCULATION (fees effective 10/01/97)**1. FILING FEE**

Large Entity Fee Code/Fee	Small Entity Fee Code/Fee	Fee Description	Fee Due
101/\$790	201/\$395	Utility Filing	<input type="text"/>
106/\$330	206/\$165	Design Filing	<input type="text"/>
108/\$790	208/\$395	Reissue Filing	<input type="text"/>
114/\$150	214/\$75	Provisional Filing	<input type="text"/>
SUBTOTAL (1)		(\$0)	

2. CLAIMS

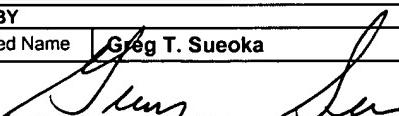
Large Entity Fee Code/Fee	Small Entity Fee Code/Fee	Fee Description
103/\$22	203/\$11	Claims in excess of 20
102/\$82	202/\$41	Independent claims in excess of 3
104/\$270	204/\$135	Multiple dependent claim
109/\$82	209/\$41	Reissue independent claims over original patent
110/\$22	210/\$11	Reissue claims in excess of 20 and over original patent
SUBTOTAL (3)		(\$0)

(Col. 1) For	No. of Existing Claims	minus*	(Col. 2) Highest No. Previously Paid For	=	(Col. 3) Extra**	Fee	Fee Due
TOTAL		minus*	20 or	=	x		= 0
INDEP		minus*	3 or	=	x		= 0
[] First presentation of multiple dependent claim							

* Subtract the greater number of Col. 2

** If the difference between Col. 1 and Col. 2 is less than zero, then enter "0" in Col. 3

SUBTOTAL (2) **(\$0)**

SUBMITTED BY		Complete (if applicable)	
Typed or Printed Name	Greg T. Sueoka	Reg. Number	33,800
Signature		Date	July 21, 1998

[†]Request for Extension of Time per 37 CFR 1.136 (a)(3) made hereby

0002/PTO(modified)
Rev. 10/95U.S. Department of Commerce
Patent and Trademark Office*Complete if Known***FEE TRANSMITTAL****TOTAL AMOUNT OF PAYMENT**Subtotal (1) + Subtotal (2) + Subtotal (3) = **(\$(105.00)**

Application Number	09/083,769
Filing Date	May 22, 1998
First Named Inventor	Gerard McGoogan
Group Art Unit	2831
Examiner Name	Not Yet Known
Attorney Docket Number	3454

METHOD OF PAYMENT**FEE CALCULATION (continued)****1. The Commissioner is hereby authorized to:**

- Charge the indicated fees to the below mentioned deposit account.
- Charge any additional fee required under 37 CFR 1.16 and 1.17 or credit any over payments to the below mentioned deposit account.¹
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Deposit Account Number: 19-2555
Deposit Account Name: FENWICK & WEST LLP

A Duplicate Copy of this authorization is attached

2. Payment Enclosed:
[X] Check [] Other**FEE CALCULATION** (fees effective 10/01/97)**1. FILING FEE**

Large Entity Fee Code/Fee	Small Entity Fee Code/Fee	Fee Description	Fee Due
101/\$790	201/\$395	Utility Filing	<input type="text"/>
106/\$330	206/\$165	Design Filing	<input type="text"/>
108/\$790	208/\$395	Reissue Filing	<input type="text"/>
114/\$150	214/\$75	Provisional Filing	<input type="text"/>
SUBTOTAL (1)		(\$0)	

3. ADDITIONAL FEES

Large Entity Fee Code/Fee	Small Entity Fee Code/Fee	Fee Description	Fee Due
105/\$130	205/\$65	Surcharge - late filing fee or oath	<input type="text"/> 65.
127/\$50	227/\$25	Surcharge-late provisional filing fee or cover sheet	<input type="text"/>
147/\$2,520	147/\$2,520	For filing a request for reexamination	<input type="text"/>
115/\$110	215/\$55	Extension for response within first month [†]	<input type="text"/>
116/\$400	216/\$200	Extension for response within second month [†]	<input type="text"/>
117/\$950	217/\$475	Extension for response within third month [†]	<input type="text"/>
118/\$1,510	218/\$755	Extension for response within fourth month [†]	<input type="text"/>
128/\$2,060	228/\$1,030	Extension for response within fifth month [†]	<input type="text"/>
119/\$310	219/\$155	Notice of Appeal	<input type="text"/>
141/\$1,320	241/\$660	Petition to revive unintentionally abandoned application	<input type="text"/>
142/\$1,320	242/\$660	Utility Issue Fee (Or Reissue)	<input type="text"/>
143/\$450	243/\$225	Design Issue Fee	<input type="text"/>
122/\$130	122/\$130	Petitions to the Commissioner	<input type="text"/>
123/\$50	123/\$50	Petitions related to provisional applications	<input type="text"/>
126/\$240	126/\$240	Submission of Information Disclosure Statement	<input type="text"/>
581/\$40	581/\$40	Recording each patent assignment per property (times number of properties)	<input type="text"/> 40.
146/\$790	246/\$395	Filing a submission after final rejection (37 CFR 1.129(a))	<input type="text"/>
149/\$790	249/\$395	For each additional invention to be examined (37 CFR 1.129(b))	<input type="text"/>
Other fee (specify):		<input type="text"/>	<input type="text"/>
Other fee (specify):		<input type="text"/>	<input type="text"/>
SUBTOTAL (3)		(\$105.00)	

2. CLAIMS

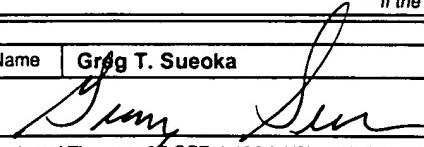
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104/\$270	204/\$135	Multiple dependent claim
109/\$82	209/\$41	Reissue independent claims over original patent
110/\$22	210/\$11	Reissue claims in excess of 20 and over original patent

(Col. 1)	(Col. 2)	(Col. 3)			
For	No. of Existing Claims	Highest No. Previously Paid For	Extra**	Fee	Fee Due
TOTAL	minus*	20 or	=	x	= 0
INDEP	minus*	3 or	=	x	= 0
[] First presentation of multiple dependent claim					= 0

* Subtract the greater number of Col. 2

SUBTOTAL (2) **(\$0)**

** If the difference between Col. 1 and Col. 2 is less than zero, then enter "0" in Col. 3

SUBMITTED BYTyped or Printed Name **Greg T. Sueoka***Complete (if applicable)*Reg. Number **33,800**Signature Date **August 11, 1998**¹ Request for Extension of Time per 37 CFR 1.136 (a)(3) made hereby

0002/PTO(modified)
Rev. 10/95

U.S. Department of Commerce
Patent and Trademark Office

FEE TRANSMITTAL

TOTAL AMOUNT OF PAYMENT

Subtotal (1) + Subtotal (2) + Subtotal (3) = **(\$976.00)**

Complete if Known	
Application Number	
Filing Date	May 22, 1998
First Named Inventor	Gerard McGoogan
Group Art Unit	
Examiner Name	
Attorney Docket Number	3454

METHOD OF PAYMENT

1. The Commissioner is hereby authorized to:

- Charge the indicated fees to the below mentioned deposit account.
- Charge any additional fee required under 37 CFR 1.16 and 1.17 or credit any over payments to the below mentioned deposit account.
- Charge the Issue Fee set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.311(b) to the below mentioned deposit account.

Deposit Account Number: 19-2555

Deposit Account Name: FENWICK & WEST LLP

A Duplicate Copy of this authorization is attached

2. Payment Enclosed:

[] Check [] Other

FEE CALCULATION (continued)

Large Entity Fee Code/Fee	Small Entity Fee Code/Fee	Fee Description	Fee Due
105/\$130	205/\$65	Surcharge - late filing fee or oath	
127/\$50	227/\$25	Surcharge-late provisional filing fee or cover sheet	
147/\$2,520	147/\$2,520	For filing a request for reexamination	
115/\$110	215/\$55	Extension for response within first month ¹	
116/\$400	216/\$200	Extension for response within second month ¹	
117/\$950	217/\$475	Extension for response within third month ¹	
118/\$1,510	218/\$755	Extension for response within fourth month ¹	
128/\$2,060	228/\$1,030	Extension for response within fifth month ¹	
119/\$310	219/\$155	Notice of Appeal	
141/\$1,320	241/\$660	Petition to revive unintentionally abandoned application	
142/\$1,320	242/\$680	Utility Issue Fee (Or Reissue)	
143/\$450	243/\$225	Design Issue Fee	
122/\$130	122/\$130	Petitions to the Commissioner	
123/\$50	123/\$50	Petitions related to provisional applications	
126/\$240	126/\$240	Submission of Information Disclosure Statement	
581/\$40	581/\$40	Recording each patent assignment per property (times number of properties)	
146/\$790	246/\$395	Filing a submission after final rejection (37 CFR 1.129(a))	
149/\$790	249/\$395	For each additional invention to be examined (37 CFR 1.129(b))	
Other fee (specify):			
Other fee (specify):			
SUBTOTAL (3)		(\$0)	

(Col. 1)	(Col. 2)	(Col. 3)	
For	No. of Existing Claims	Highest No. Previously Paid For	Fee Due
TOTAL	21	minus* 20 or	= 1 x 22 = 22.
INDEP	5	minus* 3 or	= 2 x 82 = 164.
[<input type="checkbox"/>] First presentation of multiple dependent claim			

Subtract the greater number of Col. 2
** If the difference between Col. 1 and Col. 2 is less than zero, then enter "0" in Col. 3

SUBTOTAL (2) (\$186.00)

SUBMITTED BY		Complete (if applicable)	
Typed or Printed Name	Sanjay Prasad	Reg. Number	36,247
Signature		Date	May 22, 1998

Request for Extension of Time per 37 CFR 1.136 (a)(3) made hereby



IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

#7
PATENT
CFR
TV 11-19-99

APPLICANT(S): Gerard McGoogan
SERIAL NO.: 09/083,769
FILING DATE: May 22, 1998
TITLE: Improvements in Intrinsically Safe Circuits
EXAMINER: Unknown
GROUP ART UNIT: 2831
ATTY. DKT. NO.: 3454

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner For Patents, Washington, D.C. 20231, on the date shown below:

Dated: 21 July 1998 By: Greg T. Sueoka
Greg T. Sueoka, Reg. No.: 33,800

ASSISTANT COMMISSIONER FOR PATENTS
APPLICATION PROCESSING DIVISION
CUSTOMER CORRECTION BRANCH
WASHINGTON, DC. 20231

REQUEST FOR CORRECTED FILING RECEIPT

SIR:

Enclosed is a copy of the Official Filing Receipt. It contains the following error:

1. The title is erroneously stated as "Intrinsically Safe Circuits". The correct title is "Improvements in Intrinsically Safe Circuits" as evidenced by the declaration, a copy of which is enclosed.

2. The filing fee received is erroneously states as "\$1,334.00". The correct filing fee is "\$976.00" as evidenced by the fee transmittal and check, copies of which are enclosed.

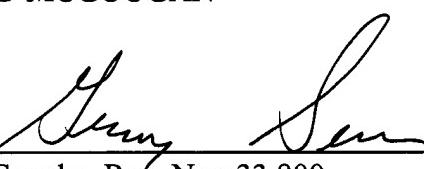
Please issue a corrected Filing Receipt rectifying this error.

The correction is not due to any error by the Applicant and therefore no fee is due.

Since at least one of the corrections is due to Applicant's error, payment in the amount of \$25, pursuant to 37 CFR § 1.19(h), is enclosed.

Respectfully submitted,
GERARD MCGOOGAN

Dated: 21 Feb 1998

By: 
Greg T. Sueoka, Reg. No.: 33,800
Fenwick & West LLP
Two Palo Alto Square
Palo Alto, CA 94306
Tel.: (650) 858-7194
Fax.: (650) 494-1417

FILING RECEIPT



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTORNEY DOCKET NO.	DRWGS	TOT CL	IND CL
09/083,769	05/22/98	2831	\$1,334.00	3454	5	21	5

RECEIVED

GREG T SUEOKA
FENWICK AND WEST
TWO PALO ALTO SQUARE
PALO ALTO CA 94306

JUN 22 1998

FENWICK & WEST

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Application Processing Division's Customer Correction Branch within 10 days of receipt. Please provide a copy of the Filing Receipt with the changes noted thereon.

Applicant(s)

GERARD MCGOOGAN, STIRLINGSHIRE, UNITED KINGDOM.

TITLE

INTRINSICALLY SAFE CIRCUITS

PRELIMINARY CLASS: 174



FENWICK & WEST Two Palo Alto Square, Suite 800, Palo Alto, CA 94306
 VENDOR: COMMISSIONER OF PATENTS & VENDOR NO.: 1001034

CHECK NO. 2035065
 CHECK DATE: 05-22-98

INVOICE NO.	INVOICE DATE	DESCRIPTION	ACCOUNT NO.	FILE NO.	AMOUNT
16331	05-22-98	19900.01000	1330 0000		976.00

TOTAL AMOUNT 976.00

THIS DOCUMENT HAS A COLORED BACKGROUND AND A SIMULATED WATERMARK ON THE BACK

FENWICK & WEST LLP

Two Palo Alto Square, Suite 800
 Palo Alto, California 94306
 415-494-0600

DRAWN ON
 First Union National Bank
 Chapel Hill, North Carolina

DATE 05-22-98

Bank of America Disbursement Account
 66-156/531

CHECK NO. 2035065

PAY NINE HUNDRED SEVENTY-SIX AND 00/100 DOLLARS

AMOUNT \$ 976.00

TO THE
 ORDER OF COMMISSIONER OF PATENTS &

TRADEMARKS

Majas



JUL 27 1998

PTO/SB/01 (6-95) (modified)

OMB 0651-0032

Approved for use through 10/31/96 OMB 0651-0032.
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Department of Commerce Patent and Trademark Office		Attorney Docket Number	3454
		First Named Inventor	Gerard McGoogan
<i>COMPLETE IF KNOWN</i>			
		Application Number	
		Filing Date	May 22, 1998
		Group Art Unit	
		Examiner Name	
<input checked="" type="checkbox"/> Declaration Submitted with Initial Filing		OR	<input type="checkbox"/> Declaration Submitted after Initial Filing

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

IMPROVEMENTS IN INTRINSICALLY SAFE CIRCUITS

the specification of which _____ **(Title of the Invention)**

[X] is attached hereto

OR

[] was filed on (MM/DD/YYYY) [_____] as United States Application Number or PCT International Application Number [_____] and was amended on (MM/DD/YYYY) [_____] (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code § 119 (a)-(d) or § 385(b) of any foreign application(s) for patent or inventor's certificate, or § 365 (a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Priority Filing Date before that of the application on which priority is claimed.					
Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
			<input type="checkbox"/>	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Additional foreign application numbers are listed on a supplemental priority sheet attached hereto.

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) filed on [REDACTED]

as filed under Title 35, United States Code & 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input checked="" type="checkbox"/> Additional provisional application numbers are listed on a supplemental sheet attached hereto.

DECLARATION

Page 2

I hereby claim the benefit under Title 35, United States Code § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

Additional U.S. or PCT international application numbers are listed on a supplemental priority sheet attached hereto.

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Name	Registration Number		
Greg T. Sueoka Sanjay Prasad	33,800 36,247		

Additional attorney(s) and/or agent(s) named on a supplemental sheet attached hereto.

Please direct all correspondence to:

**Greg T. Sueoka
Fenwick & West LLP
Two Palo Alto Square
Palo Alto, CA 94306
U.S.A.**

Telephone (650) 858-7194

Fax (650) 494-1417

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor: A petition has been filed for this unsigned inventor

Given Name	Gerard	Middle Initial		Family Name	McGoogan	Suffix e.g. Jr.
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Inventor's Signature		Date	
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Residence: City	Stirlingshire	State		Country	United Kingdom	Citizenship	U.K.
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Mailing Address	Woodlands House, Avonbridge Road, Slamannan						
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Mailing Address							
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City	Stirlingshire	State		Zip	FK1 3EU	Country	United Kingdom
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Additional inventors are being named on supplemental sheet(s) attached hereto